

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 three eighths inch = one foot  
 one eighth inch = one foot  
 one sixteenth inch = one foot

### AIR TERMINAL UNIT SIZING SCHEDULE

SIZE	MIN ALLOWABLE AIR FLOW		MAX ALLOWABLE AIR FLOW		DUCT INLET SIZE		MAX APD	MAXIMUM SOUND POWER LEVEL (Re: 10 <sup>-12</sup> WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT							HOT WATER HEATING COIL					REMARKS					
	OCTAVE BANDS							EAT		EWT		FLOW		MAX WPD		PIPE RUNOUT SIZE TO COIL									
	CFM	[L/s]	CFM	[L/s]	IN	[mm]		IN WG	[Pa]	2	3	4	5	6	7	*F	[°C]	*F	[°C]		GPM	[L/m]	FT	[kPa]	IN
A	60	[28]	170	[80]	4	[100]	0.4	[100]	69	65	58	52	51	47	55	[13]	140	[60]	0.5	[2]	3	[9]	0.75	[19]	----
B	90	[42]	260	[120]	5	[130]	0.4	[100]	69	63	59	52	51	47	55	[13]	140	[60]	0.5	[2]	3	[9]	0.75	[19]	----
C	130	[61]	380	[180]	6	[150]	0.4	[100]	69	67	61	55	52	49	55	[13]	140	[60]	0.7	[3]	4	[12]	0.75	[19]	----
D	160	[76]	490	[230]	7	[180]	0.4	[100]	70	68	63	57	53	49	55	[13]	140	[60]	0.7	[3]	4	[12]	0.75	[19]	----
E	230	[110]	680	[320]	8	[200]	0.4	[100]	71	68	59	53	51	47	55	[13]	140	[60]	1	[4]	3	[9]	0.75	[19]	----
F	270	[130]	790	[370]	9	[230]	0.4	[100]	71	69	60	54	51	47	55	[13]	140	[60]	1.5	[6]	4	[12]	0.75	[19]	----
G	350	[170]	1050	[500]	10	[250]	0.4	[100]	74	68	61	57	54	52	55	[13]	140	[60]	1.5	[6]	4	[12]	0.75	[19]	----
H	500	[240]	1500	[710]	12	[300]	0.4	[100]	73	69	64	59	57	53	55	[13]	140	[60]	2.5	[10]	3	[9]	0.75	[19]	----
I	750	[350]	2250	[1100]	14	[350]	0.4	[100]	73	68	65	61	61	59	55	[13]	140	[60]	3.5	[13]	4	[12]	0.75	[19]	----
J	1000	[470]	3000	[1400]	16	[400]	0.4	[100]	73	68	66	60	58	55	55	[13]	140	[60]	4.5	[17]	4	[12]	1	[25]	----

**NOTES**

- INLET STATIC BASED ON ARI 885-98.
- THIS SCHEDULE IS USED WITH THE TERMINAL UNIT SCHEDULE.
- CONTROL SEQUENCE SHALL BE AS INDICATED ON THE AIR TERMINAL UNIT SCHEDULE.
- PROVIDE SOUND ATTENUATION AFTER-SECTION AS REQUIRED TO MEET ROOM NC LEVEL.

### HVAC DESIGN DATA

DESIGN CONDITIONS	SUMMER					WINTER				
	TEMP		WET BULB TEMP		% HUMIDITY	TEMP		DEWPOINT TEMP		% HUMIDITY
	*F	[°C]	*F	[°C]		*F	[°C]	*F	[°C]	
OUTDOOR DESIGN CONDITIONS	88.6	[31]	66.2	[19]	30	37.8	[3]	19.1	[-7]	45
INDOOR AREA DESIGN CONDITIONS										
NON PATIENT ROOM	75	[24]	62.5	[17]	50	70	[21]	53	[12]	30
PATIENT ROOM	75	[24]	62.5	[17]	50	70	[21]	53	[12]	30
OFFICE	75	[24]	62.5	[17]	50	70	[21]	53	[12]	30
EXAM ROOM	75	[24]	62.5	[17]	50	70	[21]	53	[12]	30

### SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	SIZE	AIR FLOW				ADDITIONAL SOUND ATTENUATION REQUIRED	CONTROL TYPE	CONTROL SEQUENCE	REHEAT			PERIMETER SUPPLEMENTAL HEAT LINK	REMARKS
					MAX		MIN					HW	ELEC	NONE		
					CFM	[L/s]	CFM	[L/s]								
TU1	181	180	348-AHU1	D	400	[190]	280	[140]	NO	VAV	4/M/H05	X			NONE	
TU2	NOT USED															
TU3	184	184	348-AHU1	E	480	[230]	240	[110]	NO	VAV	4/M/H05	X			NONE	
TU4	147	148, 147	348-AHU1	B	160	[76]	160	[76]	NO	CV	4/M/H05	X			NONE	
TU5	160	160	348-AHU1	B	200	[94]	200	[94]	NO	CV	4/M/H05	X			NONE	
TU6	C1-8B	152	348-AHU1	C	325	[150]	325	[150]	NO	CV	4/M/H05	X			NONE	
TU7	C1-8B	152	348-AHU1	G	700	[330]	700	[330]	NO	CV	4/M/H05	X			NONE	
TU8	151	151	348-AHU1	C	195	[92]	195	[92]	NO	CV	4/M/H05	X			NONE	
TU9	143	142	348-AHU1	B	195	[92]	195	[92]	NO	CV	4/M/H05	X			NONE	
TU10	150	150	348-AHU1	C	200	[94]	200	[94]	NO	CV	4/M/H05	X			NONE	
TU11	142	142	348-AHU1	B	235	[110]	235	[110]	NO	CV	4/M/H05	X			NONE	
TU12	154	101, 153, 154	348-AHU1	E	465	[220]	465	[220]	NO	CV	4/M/H05	X			NONE	
TU13	141	141	348-AHU1	B	235	[110]	235	[110]	NO	CV	4/M/H05	X			NONE	
TU14	100	100	348-AHU1	B	100	[47]	100	[47]	NO	CV	4/M/H05	X			NONE	
TU15	C1-2	CIRC, 185, 186	348-AHU1	H	1260	[590]	1260	[590]	NO	CV	4/M/H05	X			NONE	
TU16	173	188	348-AHU1	B	200	[94]	100	[47]	NO	VAV	4/M/H05	X			NONE	
TU17	161	161	348-AHU1	H	1000	[470]	500	[240]	NO	VAV	4/M/H05	X			NONE	
TU18	172	172	348-AHU1	B	200	[94]	100	[47]	NO	VAV	4/M/H05	X			NONE	
TU19	172	172	348-AHU1	D	450	[210]	225	[110]	NO	VAV	4/M/H05	X			NONE	
TU20	172	172	348-AHU1	C	350	[170]	175	[83]	NO	VAV	4/M/H05	X			NONE	
TU21	NOT USED															
TU22	NOT USED															
TU23	NOT USED															
TU24	162	162	348-AHU1	B	135	[64]	135	[64]	NO	CV	4/M/H05	X			NONE	
TU25	122	122	348-AHU1	B	225	[110]	225	[110]	NO	CV	4/M/H05	X			NONE	
TU26	120	120	348-AHU1	B	225	[110]	225	[110]	NO	CV	4/M/H05	X			NONE	
TU27	C1-4C	CIRC.	348-AHU1	E	510	[240]	510	[240]	NO	CV	4/M/H05	X			NONE	
TU28	121	121	348-AHU1	B	220	[100]	220	[100]	NO	CV	4/M/H05	X			NONE	
TU29	123	1'23	348-AHU1	C	225	[110]	225	[110]	NO	CV	4/M/H05	X			NONE	
TU30	125	125	348-AHU1	C	200	[94]	200	[94]	NO	CV	4/M/H05	X			NONE	
TU31	126	126	348-AHU1	C	230	[110]	230	[110]	NO	CV	4/M/H05	X			NONE	
TU32	127	127	348-AHU1	A	150	[71]	110	[52]	NO	CV	4/M/H05	X			NONE	
TU33	128	128	348-AHU1	C	220	[100]	220	[100]	NO	CV	4/M/H05	X			NONE	
TU34	105	CIRC, 124	348-AHU1	E	425	[200]	425	[200]	NO	CV	4/M/H05	X			NONE	
TU35	165	105, 107	348-AHU1	C	250	[120]	250	[120]	NO	CV	4/M/H05	X			NONE	
TU36	130	130	348-AHU1	D	205	[97]	205	[97]	NO	CV	4/M/H05	X			NONE	
TU37	130	103	348-AHU1	G	840	[440]	470	[220]	NO	VAV	4/M/H05	X			NONE	
TU38	131	131	348-AHU1	D	205	[97]	205	[97]	NO	CV	4/M/H05	X			NONE	
TU39	132	102	348-AHU1	C	380	[180]	180	[90]	NO	VAV	4/M/H05	X			NONE	
TU40	132	CIRC, 124	348-AHU1	G	330	[160]	330	[160]	NO	CV	4/M/H05	X			NONE	
TU41	132	132	348-AHU1	C	220	[100]	220	[100]	NO	CV	4/M/H05	X			NONE	
TU42	C1-8A	CIRC	348-AHU1	B	195	[92]	195	[92]	NO	CV	4/M/H05	X			NONE	
TU43	136	136	348-AHU1	D	250	[120]	250	[120]	NO	CV	4/M/H05	X			NONE	
						[ ]		[ ]								

### SINGLE PACKAGED AIR CONDITIONER HEAT PUMP SCHEDULE

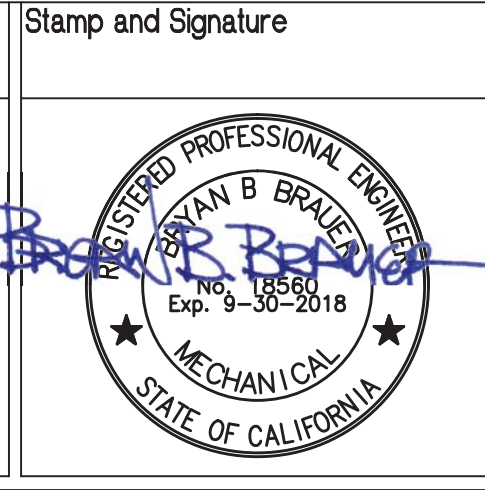
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIR FLOW	MIN OUTSIDE AIR FLOW	EXT STATIC PRESSURE	COOLING CAPACITY										HEATING CAPACITY						ELECTRICAL DATA					REMARKS									
							MIN TOTAL CAPACITY		MIN SENS CAPACITY		MIN SEER	EAT		OSA DESIGN TEMP		COMP Kw	MIN HEAT CAPACITY		EAT DB		LAT DB		OSA DESIGN TEMP		AIR FILTER MARK NO		INDOOR FAN			UNIT POWER CONNECTION							
							MBH	[kW]	MBH	[kW]		*F	[°C]	*F	[°C]		*F	[°C]	*F	[°C]	*F	[°C]	*F	[°C]	*F	[°C]	HP		[W]	CONTROL	MCA	PHASE	VOLT				
							CFM	[L/s]	CFM	[L/s]	IN	[Pa]	*F	[°C]	*F	[°C]	*F	[°C]	*F	[°C]	*F	[°C]	*F	[°C]	*F	[°C]											
AHP-1	PAD AT GRADE	POLICE STATION	PACKAGED HEAT PUMP	1125	[530]	625	[300]	0.75	[190]	42	[140]	24	[7]		78	[26]	67	[19]	[80]	[27]		[31]	[9]	45	[7]	80	[27]	[37]	[3]		0.43	[320]	THERMOSTAT	13	[3]	460	TRANE WHC036H4
					[ ]		[ ]		[ ]		[ ]		[ ]																								

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**CONSULTANTS:**

**ARSENIO ORTEGA, P.E.**  
CONSULTING ENGINEER  
5 Third Street, Suite 716  
San Francisco, CA 94103  
(415) 546-0490 tel -0491 fax

**BRYAN BENNO BRAUER, P.E.**  
CONSULTING ENGINEER  
PO BOX 2386, TRUCKEE, CA 96160 (530)882-8683  
BRYAN@BBBRAUER.COM



**ARCHITECT/ENGINEERS:**

**ENGINEERS ARCHITECTS**  
6700 KOLL CENTER PARKWAY SUITE 125  
PLEASANTON, CALIFORNIA 94566  
Tel. 925.223.8217 www.thekpagroup.com

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**HVAC EQUIPMENT SCHEDULES**

Approved Project Director  
-  
VAPAHCS PLANNING AND ENGINEERING

Project Title  
**348 HOMELESS RESOURCE CENTER**

Project Number  
640-14-124

Building Number  
348

Location  
795 WILLOW ROAD, MENLO PARK, CA 94025

Date  
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Drawn  
KPA TEAM

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Construction  
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Management

**VAPAHCS**  
Ventura Alliance  
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